

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 4, 2004, 10:04:27 ; Search time 828.719 Seconds

(without alignments)
1569.037 Million cell updates/sec

Title: US-09-986-381-1

Perfect score: 30

Sequence: 1 gccgcctccagctgcttcttcttcttact 30

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl:*
1: gb_da:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
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9: gb_pr:*
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11: gb_ats:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
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23: em_pat:*
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26: em_ro:*
27: em_ats:*
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30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pln:*
35: em_htg_rdt:*
36: em_htg_mam:*
37: em_htg_vrt:*
38: em_sy:*
39: em_htgo_hum:*
40: em_htgo_mus:*
41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	30	100.0	799	9 HSP5314	X92659 H. sapiens 1
2	30	100.0	3407	9 HSP5314	AF136270 Homo sapi
3	30	100.0	3423	9 HSM0597P1	AF151120 Homo sapi
4	30	100.0	121017	9 AC087388	AC087388 Homo sapi
5	30	100.0	166941	2 AC008049	AC008049 Homo sapi
6	28.4	94.7	600	6 192482	192482 Sequence 2
7	28.4	94.7	4360	9 AB018045	AB018045 Homo sapi
8	28.4	94.7	20303	9 HSP533G	X54156 Human p53 g
9	28.4	94.7	20303	9 HSP533G	U94788 Human p53 g
10	25.2	84.0	163542	2 AC129071	AC129071 Pan trogl
11	25.2	84.0	174521	2 AC127468	AC127468 Papio anu
12	25.2	84.0	176927	2 AC127469	AC127469 Papio anu
13	25.2	84.0	218485	2 AC127470	AC127470 Pan trogl
14	22.8	76.0	170162	10 AL807748	AL807748 Mouse DNA
15	22.2	74.0	201076	2 AC119349	AC119349 Rattus no
16	22.2	74.0	241561	2 AC098420	AC098420 Rattus no
17	22	73.3	22	6 AX037125	AX037125 Sequence
18	22	73.3	945	10 AY073823	AY073823 Mus muscu
19	22	73.3	945	10 AY073823	AY073823 Mus muscu
20	22	73.3	262405	2 AC102976	AC102976 Rattus no
21	21.8	72.7	273729	2 AC106147	AC106147 Rattus no
22	21.6	72.0	4718	4 AY152693	AY152693 Bos tauru
23	21.6	72.0	200535	10 AL671880	AL671880 Mouse DNA
24	21.6	72.0	216123	2 AC036146	AC036146 Mus muscu
25	21.6	72.0	221117	2 AC023174	AC023174 Mus muscu
26	21.2	70.7	2068	9 HSM059269	AL834243 Homo sapi
27	21.2	70.7	2284	6 AX713711	AX713711 Sequence
28	21.2	70.7	2284	9 AK055435	AK055435 Homo sapi
29	21.2	70.7	4373	9 AB046781	AB046781 Homo sapi
30	21.2	70.7	4428	9 AF322916	AF322916 Homo sapi
31	21.2	70.7	4429	4 AF322915	AF322915 Bos tauru
32	21.2	70.7	19795	9 HSTGCMDE	X57331 Human immun
33	21.2	70.7	83775	2 AC022466	AC022466 Homo sapi
34	21.2	70.7	149287	9 AC087699	AC087699 Homo sapi
35	21.2	70.7	151567	2 AC145503	AC145503 Canis fam
36	21.2	70.7	154160	2 AC046154	AC046154 Homo sapi
37	21.2	70.7	155760	2 AC010076	AC010076 Homo sapi
38	21.2	70.7	167208	2 AC034190	AC034190 Homo sapi
39	21.2	70.7	169802	9 CNGS01DR2	AL122127 Human chr
40	21.2	70.7	173534	9 AC007920	AC007920 Homo sapi
41	21.2	70.7	199277	2 AC145445	AC145445 Canis fam
42	21.2	70.7	207841	2 AC072019	AC072019 Homo sapi
43	21	70.0	89936	8 AP004532	AP004532 Locust cor
44	21	70.0	155372	2 AC108818	AC108818 Mus muscu
45	21	70.0	163396	9 AL161445	AL161445 Human DNA

ALIGNMENTS

RESULT 1	HSP5314	799 bp	DNA	linear	PRI 25-NOV-1996
LOCUS	HSP5314				
DEFINITION	H.sapiens intron 4 from p53 gene.				
ACCESSION	X92659				
VERSION	X92659.1 GI:1177472				
KEYWORDS	p53 gene.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Shamsher, M. and Montano, X.				
AUTHORS	Analysis of intron 4 of the p53 gene in human cutaneous melanoma				
JOURNAL	Gene 176 (1-2), 259-262 (1996)				

MEDLINE 97075940
 PUBMED 8918263
 REFERENCE 2 (bases 1 to 799)
 AUTHORS Montano, X.C.
 TITLE Direct Submission
 JOURNAL Submitted (29-OCT-1995) X.C. Montano, Imperial Cancer Research Fund, Viral Mediated Cell Differentiation Lab, PO Box 123, Lincoln's Inn Fields, LONDON, WC2A 3PX, UK

FEATURES
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 /cell_type="melanoma"

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exon <1..23
 /gene="p53"

intron 24..778
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exon 779..>799
 /gene="p53"

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QY 1 GCCGCTCCAGTTCCTTATCTGTTCACT 30
 Db 707 GCCGCTCCAGTTCCTTATCTGTTCACT 736

RESULT 2 3407 bp DNA linear PRI 28-MAR-2002
 LOCUS HOMOTSP1
 DEFINITION Homo sapiens tumor suppressor protein p53 (P53) gene, exons 2
 through 9.
 ACCESSION AF136270
 VERSION AF136270.1 GI:4732144

KEYWORDS
 SEGMENT
 SOURCE
 ORGANISM

1 of 2
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
 AUTHORS Anderson, C.W. and Allalunis-Turner, M.J.
 TITLE Human TP53 from the malignant glioma-derived cell lines M059J and
 M059K has a cancer-associated mutation in exon 8

JOURNAL Radiat. Res. 154 (4), 473-476 (2000)
 MEDLINE 11023613
 PUBMED 11023613

REFERENCE
 AUTHORS Anderson, C.W., Kieleczawa, J. and Allalunis-Turner, J.
 TITLE Direct Submission
 JOURNAL Submitted (20-MAR-1999) Biology, Brookhaven National Laboratory, 50
 Bell Avenue, Upton, NY 11973-5000, USA

FEATURES
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 Location/Qualifiers

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 /db_xref="taxon:9606"
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exon 1555..1738
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exon 1820..1932
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exon 2501..2610
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exon 2954..3090
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exon 3183..3256
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 Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCGCTCCAGTTCCTTATCTGTTCACT 30
 Db 1483 GCCGCTCCAGTTCCTTATCTGTTCACT 1512

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 LOCUS HSM059P1
 DEFINITION Homo sapiens tumor suppressor protein p53 (P53) gene, exons 2
 through 9.
 ACCESSION AF135120
 VERSION AF135120.1 GI:4731629

KEYWORDS
 SEGMENT
 SOURCE
 ORGANISM

1 of 2
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
 AUTHORS Allalunis-Turner, M.J., Barron, G.M., Day, R.S. III, Dobler, K.D. and
 Mirzayans, R.
 TITLE Isolation of two cell lines from a human malignant glioma specimen
 differing in sensitivity to radiation and chemotherapeutic drugs

JOURNAL Radiat. Res. 134 (3), 349-354 (1993)
 MEDLINE 9303270
 PUBMED 8316628

REFERENCE
 AUTHORS Anderson, C.W. and Allalunis-Turner, M.J.
 TITLE Human TP53 from the malignant glioma-derived cell lines M059J and
 M059K has a cancer-associated mutation in exon 8

JOURNAL Radiat. Res. 154 (4), 473-476 (2000)
 MEDLINE 11023613
 PUBMED 11023613

REFERENCE
 AUTHORS Anderson, C.W., Kieleczawa, J. and Allalunis-Turner, M.J.
 TITLE Direct Submission
 JOURNAL Submitted (16-MAR-1999) Biology, Brookhaven National Laboratory, 50
 Bell Avenue, Upton, NY 11973-5000, USA

FEATURES
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 Location/Qualifiers
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 /mol_type="genomic DNA"
 /db_xref="taxon:9606"
 /cell_type="M059J"

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 4, 2004, 10:04:27 ; Search time 911.591 Seconds

(without alignments)
1569.037 Million cell updates/sec

Title: US-09-986-381-3

Perfect score: 33
Sequence: 1 gccaagtagcattcgtatccaggaagcagatag 33

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3470272 segs, 2167151695 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

GenBank: 1: gb_ba: 2: gb_hg: 3: gb_in: 4: gb_om: 5: gb_ov: 6: gb_pac: 7: gb_ph: 8: gb_pl: 9: gb_pr: 10: gb_ro: 11: gb_sts: 12: gb_sy: 13: gb_un: 14: gb_vl: 15: em_ba: 16: em_fun: 17: em_hum: 18: em_in: 19: em_mu: 20: em_om: 21: em_or: 22: em_ov: 23: em_pat: 24: em_ph: 25: em_pl: 26: em_ro: 27: em_sts: 28: em_un: 29: em_vl: 30: em_hg_hum: 31: em_hg_inv: 32: em_hg_other: 33: em_hg_mus: 34: em_hg_pln: 35: em_hg_rod: 36: em_hg_man: 37: em_hg_vit: 38: em_sy: 39: em_hgo_hum: 40: em_hgo_mus: 41: em_hgo_other:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	33	100.0	133	9	S81486
C 2	33	100.0	160	9	S66666 p53 {altern
C 3	33	100.0	4360	9	AB018045 Homo sapi
C 4	33	100.0	20303	9	HS094788 Human p53
C 5	33	100.0	20303	9	HS094788 Human p53
C 6	33	100.0	121017	9	AC087388 Homo sapi
C 7	33	100.0	163542	2	AC129071 Pan trogl
C 8	33	100.0	166941	2	AC008049 Homo sapi
C 9	33	100.0	174521	2	AC127468 Homo sapi
C 10	33	100.0	176827	2	AC127469 Homo sapi
C 11	33	100.0	218485	2	AC127470 Homo sapi
C 12	24	72.7	199541	2	BX530058 Dando ter
C 13	23	69.7	118985	2	AC087152 Mus muscu
C 14	23	69.7	173547	2	AC116828 Mus muscu
C 15	22.2	67.3	24142	6	AX537050 Sequence
C 16	22.2	67.3	168876	2	AC126535 Rattus no
C 17	22.2	67.3	233233	2	AC094145 Rattus no
C 18	22.2	67.3	236933	2	AC111937 Rattus no
C 19	22.2	67.3	300312	2	AC111822 Rattus no
C 20	22.2	67.3	335551	2	AC115496 Rattus no
C 21	22	66.7	112904	9	AC027342 Homo sapi
C 22	22	66.7	159524	9	CNS01D00 Human chr
C 23	22	66.7	184536	2	AC068682 Homo sapi
C 24	22	66.7	210385	10	AC106128 Homo sapi
C 25	21.8	66.1	102743	9	AL645507 Human DNA
C 26	21.8	66.1	145111	2	AL390245 Homo sapi
C 27	21.6	65.5	205811	2	AC113095 Mus muscu
C 28	21.4	64.8	74982	11	G10379 Human STS
C 29	21.4	64.8	74982	11	G10379 Human STS
C 30	21.4	64.8	109337	2	AC067958 Homo sapi
C 31	21.4	64.8	152533	9	AC139114 Onchitho
C 32	21.4	64.8	152895	2	AC008483 Homo sapi
C 33	21.4	64.8	154333	5	AC031979 Homo sapi
C 34	21.4	64.8	169328	2	BX005316 Zebrafish
C 35	21.4	64.8	169714	2	AC016281 Homo sapi
C 36	21.4	64.8	170817	9	AC116843 Mus muscu
C 37	21.4	64.8	183787	2	AL513166 Human DNA
C 38	21.4	64.8	202433	9	AC010423 Homo sapi
C 39	21	63.6	36521	2	AC121504 Mus muscu
C 40	21	63.6	67297	3	AC020203 Drosophi
C 41	21	63.6	173188	3	AC005135 Drosophi
C 42	21	63.6	198667	10	AC093196 Drosophi
C 43	21	63.6	265099	3	AC111444 Mus muscu
C 44	20.8	63.0	95983	9	AE003626 Drosophi
C 45	20.8	63.0	100785	2	AC004874 Homo sapi
					AC069169 Homo sapi

ALIGNMENTS

RESULT 1
S81486/c
LOCUS S81486
DEFINITION S81486 p53 {alternatively spliced, intron 9} [human, Genomic Mutant, 133 nt].
ACCESSION S81486
VERSION S81486.1 GI:245371
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 133)
Felix,C.A., Nau,M.M., Takahashi,T., Mitsudomi,T., Chiba,I., Poplack,D.G., Reaman,G.H., Cole,D.B., Letterio,J.J., Whang-Peng,J.

et.al.
Hereditary and acquired p53 gene mutations in childhood acute lymphoblastic leukemia
J. Clin. Invest. 89 (2), 640-647 (1992)

JOURNAL
MEDLINE
PUBMED
REMARK
92147883
1737852
Genbank staff at the National Library of Medicine created this entry [NCBI gisbseq 81486] from the original journal article.
This sequence comes from Figure 2.
Map location: chromosome 17 band p13.1.
133 bp insertion intron 9.
Location/Qualifiers
1. .133
/organism="Homo sapiens"
/mol_type="genomic DNA"
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1. .133
/gene="p53"

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Best Local Similarity 100.0%; Pred. No. 0.0049;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy
1 GTCAGTAGCATCTGTATCAGGCAAGTCATAG 33
85 GTCAGTAGCATCTGTATCAGGCAAGTCATAG 53

RESULT 2
S6666/c
LOCUS
DEFINITION
S66666 160 bp mRNA linear PRI 23-DEC-1993
p53=tumor suppressor [alternatively spliced, exon 9-10] [human,
Molt-4, T-lymphoblastic leukemia cell line, mRNA partial], 160
nt].
S66666
S66666.1 GI:436292

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 160)
Chow, V.T., Quek, H.H. and Tock, E.P.
Alternative splicing of the p53 tumor suppressor gene in the Molt-4
T-lymphoblastic leukemia cell line
Cancer Lett. 73 (2-3), 141-148 (1993)
JOURNAL
MEDLINE
PUBMED
REMARK
8221626
Genbank staff at the National Library of Medicine created this
entry [NCBI gisbseq 139316] from the original journal article.
This sequence comes from Fig. 2.
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Location/Qualifiers
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1. .160
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Best Local Similarity 100.0%; Pred. No. 0.0048;
Matches 33; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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100 GTCAGTAGCATCTGTATCAGGCAAGTCATAG 68

RESULT 3
AB018045/c
LOCUS
DEFINITION
AB018045 4360 bp DNA linear PRI 14-APR-2000
Homo sapiens HSP70-1 gene for heat shock protein 72, spliced
variant, partial cds.
AB018045
AB018045.1 GI:4691417
HSP70-1; heat shock protein 72; HSP70-Hom; alternative splicing.
KEYWORDS
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (sites)
Shimizu, S., Nomura, K., Ujihara, M. and Demura, H.
An additional exon of stress-inducible heat shock protein 70 gene
(HSP70-1)
Biochem. Biophys. Res. Commun. 257 (1), 193-198 (1999)

JOURNAL
MEDLINE
PUBMED
10092532
2 (bases 1 to 4360)
Nomura, K. and Shimizu, S.
Direct Submission
Submitted (27-SEP-1998) Kaoru Nomura, Tokyo Women's Medical
University, Department of Medicine 2; 8-1 Kawadacho, Shinjuku-ku,
Tokyo 162-8666, Japan (E-mail: nomura@parc.wj.ac.jp,
Tel:81-3-3353-8111 (ex.39223), Fax:81-3-3357-6475)
Sequence updated (26-Oct-1998).
Location/Qualifiers
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/chromosome="6"
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complement(1..196)
/gene="HSP70-Hom"
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2323..2679
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/note="spliced variant"
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/translation="MKHMPFQVINDGKPKYOVSKGKTKAYPEISMTLTKKEI
AAAYLGVTNAVIVTPAVFNDSDQKATDAGVITAGLNTLRITNPTAAIAYGLDRT
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3955..4360
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